

ThermaLock 4000D

Media Type	Label	✓	Film Type	Polyethylene	
	Receipt			Polyolefin	
	Tag			Polypropylene	✓
	Wristband			Polyester	
				Polyimide	
Material Type	Paper		Properties	Cold Temperature	✓
	Synthetic	✓		Deep Freeze	✓
Printing Technology	Direct Thermal (no Ribbon Required)	✓		High Temperature	
	Thermal Transfer (Ribbon Required)			Ultra High Temperature	
Adhesive Type	Permanent	✓		High Tack	
	Removable			Chemical Resistance	Extreme
	No Adhesive				
Finish	Matte		Environment	Indoor	✓
	Gloss	✓		Outdoor	✓

Additional Features

- No ribbon required for direct thermal printing, therefore only one stock item needed
- Offers unique direct outdoor and UV light resistance compared to Zebra's other direct thermal products
- Provides excellent resistance to most chemicals
- Complies with FDA 175.105 for indirect food contact requirements
- Latex free
- BPA Free

Suggested Applications

- Labelling of packaging material including corrugate, plastic, glass, and metal
- Use in lawn and garden centres
- Outdoor labelling
- Compliance labelling
- Work in process labelling
- Laboratory labelling
- Replacement of thermal transfer labelling applications

Technical Specifications

	Description	Caliper
Facestock	Gloss silver polypropylene	76 microns
Adhesive	Permanent high-performance acrylic adhesive	13 microns
Liner	59gsm semi-bleached kraft liner	58 microns
Total		147 microns ±10%

Recommended Zebra Printers:

Mobile, desktop, mid-range and high-performance thermal printers

Minimum Application Temperature:

-4°C

When the label is applied, the environment and surface should be above this temperature

Service Temperature Range:

-54°C to 120°C

Following correct application and appropriate dwell time (usually 24hrs) the media will withstand this temperature range

Recommended Storage Conditions:

1 year duration when stored at 22°C at 50% RH

Storage of product before use

Expected Life Span in Application:

Indoor use, 1 year+

Following correct application and appropriate dwell time (usually 24hrs) we expect, but do not warrant, a life span as indicated

Outdoor use, up to 18 months

Expected Chemical Resistance

DT	Weak					Moderate				Harsh			Extreme				
	Blood	Body Fluid	Salt Water	Water	Window Cleaner	Alcohol	Ammonia	Bleach	IPA	Gasoline	Grease	Oil	Acetone	IR Reflow	MEK	TCE	Xylene
DT	✓	✓	✓	✓	*	*	✓	✓	*	*			*	✓	*	*	*

“✓” indicates acceptable chemical resistance

“*” indicates chemicals will cause barcodes to become unscannable until the chemical evaporates (the period of time varies from 1 minute to several hours). Before using ThermaLock 4000D with chemicals, customer testing is recommended.



Product Performance and Suitability

The information contained in this document is to be used for guidance only and is not intended for use in setting specifications. All purchasers of Zebra products shall be solely responsible for independently determining if the product conforms to all requirements of their unique application.

For testing of this material, please order sample roll SAM10022704.